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    ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
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                        Modified pigments having steric and
TITLE:
                        amphiphilic groups
                        Belmont, James A.
INVENTOR(S):
PATENT ASSIGNEE(S):
                        Cabot Corporation, USA
                        PCT Int. Appl., 37 pp.
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             LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
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AB
    Various modified pigment products are described which are
    preferably capable of being dispersed in a variety of materials such as
    coatings, inks, toners, films, plastics, polymers, elastomers, and the
     like. The modified pigments are pigments having attached (a) at least one
     steric group and (b) at least one organic ionic group and
     at least one amphiphilic counterion, wherein the
     amphiphilic counterion has a charge opposite to that of the organic
     ionic group. In addition, inks, coatings, toners, films, plastics,
    polymers, elastomers, and the like containing the modified pigment
    products of the present invention are described. Methods of making the
    modified pigment products are also described. Thus, mixing 600
    g carbon black (surface area 200 m2/g; DBP absorption 117 mL/100 g) with
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31.5 g sulfanilic acid, adding a solution of 6.2 g of NaNO2 in 600 g of

water, mixing for about 10 min, and drying in an oven at 70° gave a carbon black bearing 0.22 mmol C6H4SO3Na groups, 20 g of which was combined with 26.9 g H2NC6H4CO2(C3H6O)nC4H9 and 2.3 g methanesulfonic acid in a mixture of 50 mL water and 150 mL 2-butanone, stirred at room temperature for 1 h and at 60° for 1 h, mixed with a mixture of 4-CH3CH(NH2)C6H4(OC3H6)30OH 7.5, methanesulfonic acid 0.38, water 40 and 2-butanone 40 g, stirred for 1 h and worked up to give a carbon black bearing polymeric group and amphiphilic salt of C6H4SO3- group.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT